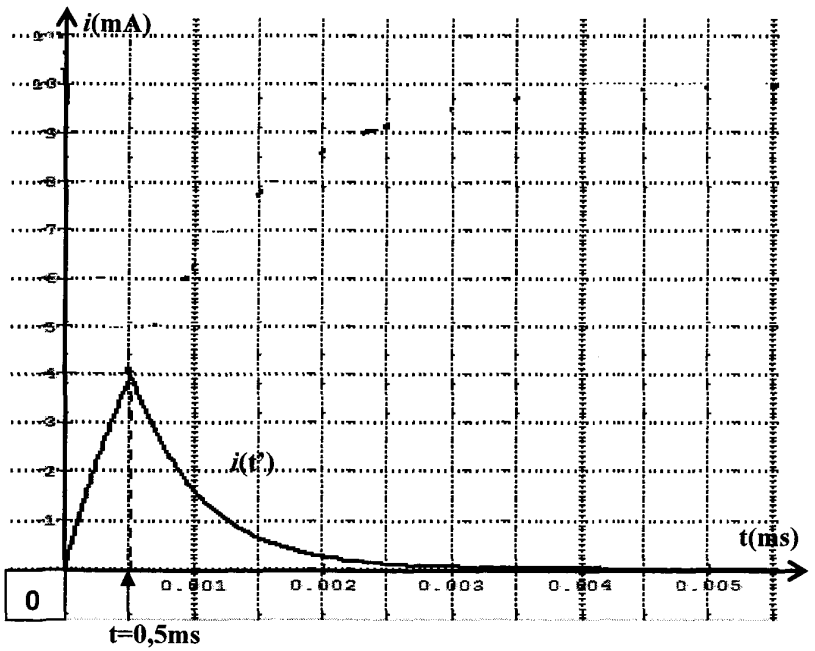
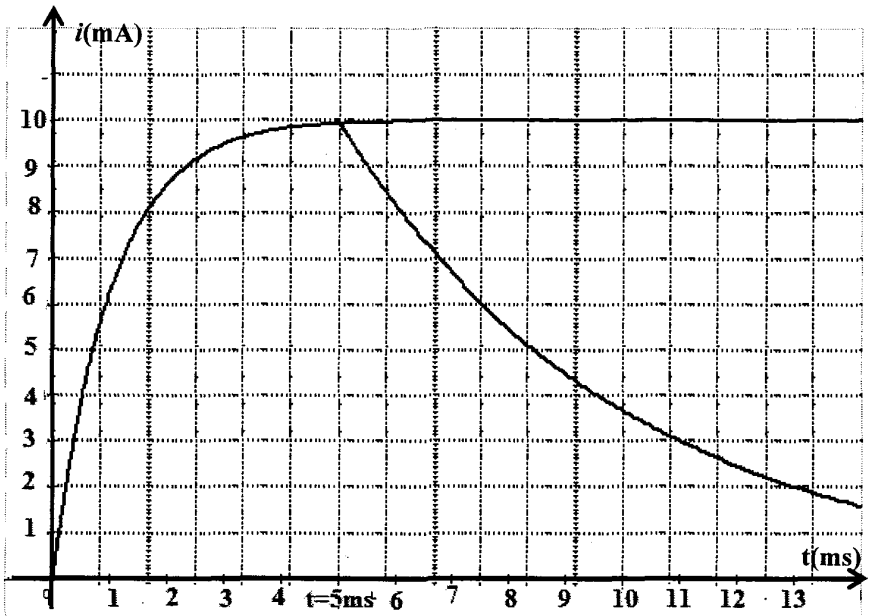
b-

$$\tau' = \frac{L}{R_2}$$

À $t \to \infty$: $i'(t) = A' = 0$

$$\Leftrightarrow \tau' = \frac{L}{R_2} = \frac{1}{10^4} = 10^{-4}s$$

c- À t=0,5ms $B' = I_1 = 3{,}93.10^{-3}A$

À t=5ms $B' = I_1 = 9{,}9.10^{-3}A$

d-